



OSCILLOSCOPE, TRAINING AID, DEVICE 6B28

TRAINING CATEGORY:

BASIC SCIENCE (Electronic)

ORIGINATING AGENCY:

CNET

SECURITY CLASSIFICATION:

Device 6B28 is unclassified.

INTENDED USE:

The oscilloscope will be used in a classroom to teach electronic students the various operations of an oscilloscope, as well as using it to measure electronic circuits. Because of the easy access to the oscilloscope parts, the student can readily trace signals through the training aid.

FUNCTIONAL DESCRIPTION:

Device 6B28 has dual channel inputs. The Cathode Ray tube is flat, rectangular 8 x 10 cm with graticule grid, edge lighted by a variable illumination scale control. This is a solid state device.

Each vertical input has a nine (9) position calibrated attenuator switch which changes vertical input sensitivity from 0.05V/cm to 20V/cm. Vertical input is controlled by a "Display Mode" switch with six (6) functions.

An internally generated square wave signal is used to calibrate the vertical input channels.

The horizontal time base operates from 0.2 microseconds to 100 milliseconds by an eighteen (18) step control. A calibrated variable frequency control and X10 horizontal frequency multiplier is provided.

Sweep triggering is from internal, external signals and line frequency.

The internal components are mounted on horizontal printed circuit boards with components exposed to students when top or bottom cover is removed. All circuit boards, except power supply, are easily removable. All parts are identified by a schematic number near each component. Each circuit board is marked on top with function name and part number. Numbered test points are placed at the input and output of circuits so student can easily measure system performance.

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The display mode switch has a tester position labeled "TSTR". This position is used to test transistors and diodes. The built-in circuit tester generates Lissajous patterns on the CRT to display the actual condition of solid state components under test, in or out of the circuit.

PHYSICAL INFORMATION:

5-1/4" High by 15" Wide by 15-1/2" Long.
Training aid weighs 30 lbs.

ENVIRONMENTAL CHARACTERISTICS:

Classroom environment.

EQUIPMENT REQUIRED (NOT SUPPLIED):

1. Function Generator
2. Volt-ohm Meter
3. Oscilloscope

INSTALLATION AREA:

Classroom

POWER REQUIREMENTS:

115 Vac/230 Vac, 50/60 Hz.

PUBLICATIONS FURNISHED:

Device Instruction Manual

PERSONNEL:

Electronic Students.

CONTRACT IDENTIFICATION:

Manufactured by Symetrics Industries Inc.,
under NAVTRASYSCEN Contract No. N61339-76-
C-0122.

LOCAL STOCK NUMBER:

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